Weston Solutions, Inc.

1435 Garrison St. Suite 100 Lakewood, CO 80215 Phone: 303-729-6100 Fax: 303-729-6101



Site Construction and Preparations

In Mine Work Supervisor

In Mine Cleaning and Construction

Fax: 303-729-6101									
WEEKLY REPORT									
Contract No./TDD		Project Title / Location				Dates of Report		Report No.	
EP-S8-13-01		EPA Region 8 Start IV Contract				7/25/2015		2	
0001/1502-04 & 1408-01		Red and Bonita Removal/Gold King Mine						2	
START PERSONNE			E gr		\$ \$5.00 m	199			
Position	Position		Name		E-Mail Address		Phone No.		Phone No.
Project Manager/Field Le	ad	Elliott Petri			Elliott.Petri@westonsolutions		s.com 7		19-216-2754
Additional START		Megan Oller			Megan.Oller@weston	Oller@westonsolutions.com		720-635-6826	
Additional START		Jan Christner			Jan.Christner@westonsolution		ons.com 505-269-1925		505-269-1925
WEATHER CONDITI	ONS							30.6 5.2	
20-Jul		21-Jul	22-Jul		23-Jul		24-Jul		25-Jul
AM: 50 - Clear	AM	: 45- Clear	AM: 42 - Cle	ar	AM: 45 - Clear	ΑN	M: 45 - Rainy A		AM: 39 - Clear
PM: 66 - Cloudy	PM:	64 - Cloudy	PM: 69 - Clo	udy	PM: 69 - Cloudy/Rain	PΝ	M: 60 - Rainy PM: 68		PM: 68 - Clear
PRP CONTRACTOR	PRP CONTRACTORS/LEAD PERSONNEL/START FIELD STAFF								
Name		Company		Trade / Work Performed					
Elliott Petri	i Weston Solutions/START			Water Sampling, Water Treatment, and Technical Assistance					
Megan Oller Westor		Weston Solut	eston Solutions/START		Water Sampling, Water Treatment, and Technical Assistance				
Steven Way		EPA - OSC		Project OSC - Oversight					
Matt Francis		ERRS			Site Construction and Preparations				

HEALTH & SAFETY

4 - Workers/Operators

Will Beach

2 - Workers

Description of Health & Safety Actions Taken Today / Safety Inspections Conducted

- MES mobilized, introduced, discussed underground Health and Safety

ERRS

MES

MES

- Established eye washes for MES and Water Treatment
- If chem hose is needed, workers will be suited in Saranex, heavy duty nitrile gloves, and a face shield.
- Vehicles moving totes of caustic to the treatment area will be escorted from Gladstone storage area to treatment area to ensure safety.
- During non-work days ERRS loader will be parked across access to treatment area and caustic totes will be tarped.

RED AND BONITA IN-MINE WORK

- MES began in mine solids clean out and as of 7/25 has rough cleaned 177 of required 280 feet.
- MES requested modification to the entrance cap/ceiling to allow ease of entry and exit, work will be conducted 7/27 and 7/28.
- The MES compressor was malfunctioning and the air gun could not be used until 7/24, so cleaning was conducted with a Ramrod.

RED AND BONITA SITE WORK

- Water Treatment ponds:
- + Created spillway from ponds in case of pump malfunction.
- + Installed baffle in pond 1 to slow water velocity at entry to system
- + Installed baffle in pond 2 to slow cascade of water from pond 1.
- Widened entry road to adit for mobilization of MES.
- + MES had an equipment delivery after they had left the site and ERRS needed to assist with unloading after hours. An MES truck had a flat tire on the pad at the top of the waste dump and wouldn't start; repairs were completed the following day.
- + ERRS installed temporary, orange webbing fencing along the road at the treatment ponds.

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WATER TREATMENT

- Treatment during first mucking was successful. Baffles were added in ponds 1 and 2 to improve settling.
- Approximately 675 gallons of caustic added; 1575 gallons of caustic remaining.
- Approximately 2 bags of Brennfloc used;10 bags of Brennfloc remaining.
- Upped floc addition to 1 turn/min to improve settling after larger quantities of solids were released from the mine.
- ERRS has been instructed on water treatment methods and has started assisting START.

WATER SAMPLING

- Effluent sample collected from Red and Bonita water treatment system and sent to commercial lab.
- Mine water pH prior to mine entry varies from 6.2 5.8 and turbidity from 6 42 NTU.
- Effluent pH varies from 6.1 7.3 and turbidity from 36 42 NTU.

GOLD KING MINE WORK

- Access road restored.
- Excavation elevations for the water collection/sump basin and drainage were determined and marked.
- Installed a 12" drainage pipe from edge of dump to sump basin location.
- 60 inch pipe was chosen for the sump well delivered on Saturday, the 12" pipe will be installed 4' from the bottom of the well.

GENERAL SITE WORK/MISCELLANEOUS ACTIVITIES

- MES Mobilized on 7/20, Jan Christner demobilized on 7/22. Steven Way and Matt Francis demobilized on 7/25.

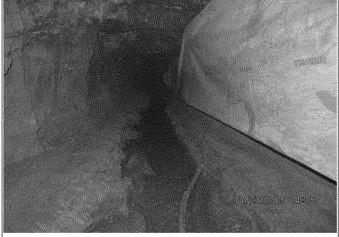
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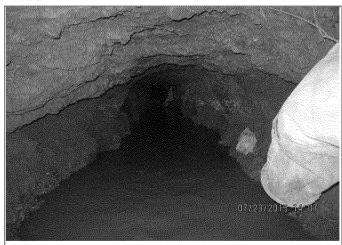
DAILY PRODUCTION & QUALITY CONTROL REPORT						
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0001/1502-04 & 1408-01	& 1408-01 Red and Bonita Removal/Gold King Mine		2			
Photographer:	Elliott Petri					
DAILY PHOTO LOG		нумания мания мания мания мания мания мания ман	nn vannis vanns vanns vanns vanns vanns v			

Photo 1



Red and Bonita Tunnel Prior to Removal of Solids.

Photo 2



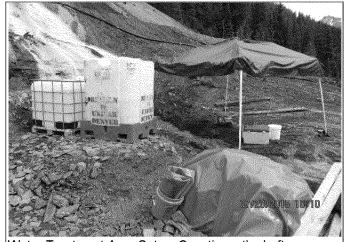
Red and Bonita Tunnel After Rough Removal of Solids, Coloration due to Ongoing Removal of Solids.

Photo 3



Pond System Overview from top of Red and Bonita Tailings Dump.

Photo 4



Water Treatment Area Setup, Caustic on the Left, Brennfloc in the Foreground, and the Floc Station on the Background Right.

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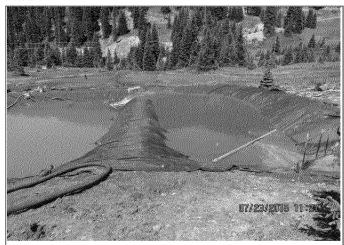
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DAILY PHOTO LOG						

Photo 5



Water Treatment On-going, Caustic Addition on the Left.

Photo 6



Water Treatment Settling Ponds, Right Pond is the 1st Pond in the Series of 4. Note Clarity Difference in Pond 2.

Photo 7



Water Quality of Mine Discharge before Mine Entry, pH = 6.28 and Turbidity 5.8 NTU.

Photo 8



Water Quality of Treatment Effluent, pH = 6.13 and Turbidity 49.6 NTU.